

## **IN THE CLAIMS**

This listing of claims replaces all prior versions, and listings, in this application.

1. (Original) Process for the preparation of a hydrocarbylated metal organic compound, comprising a hydrocarbyl group, a spectator ligand and optionally a ligand, by contacting a metal-organic reagent with a spectator ligand in the presence of at least 2 equivalents, with respect to the metal-organic reagent, of a hydrocarbylating agent.

2. (Currently Amended) Process according to claim 1, wherein the hydrocarbylating agent comprises a metal or a metalloid chosen from group consisting of 1, 2, 11, 12, 13 or and 14 ~~is a metal or metalloid comprising agent.~~

3. (Original) Process according to claim 2, wherein the hydrocarbylating agent comprises Li, Mg, Zn, or Al.

4. (Currently Amended) A process according to claim 1, wherein the spectator ligand is an imine ligand, or ~~the~~ an HA adduct thereof of an imine ligand,

wherein HA represents an acid, of which H represents its proton and A its conjugate base.

5. (Original) A process according to claim 4, wherein the metal of the metal-organic reagent is a group 3-11 metal.

6. (Previously Presented) A process according to claim 1, wherein the spectator ligand is represented by  $(HA_1)_q (-Z-)_n (A_2H)_r$ , wherein  $A_1$  and  $A_2$  are monoacidic cyclopentadienyl comprising ligands, with  $q$  and  $r$  representing an integer denoting the number of Cp ligands with  $q+r = 1$  or  $2$ , optionally linked by  $n$  bridging groups  $Z$ ,  $A_1$ ,  $A_2$  separately, or bonded via  $Z$  together forming a bidentate diacidic spectator ligand and  $n$  being an integer denoting the number of parallel bridging groups  $Z$ .

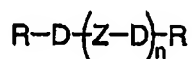
7. (Currently Amended) A process according to claim 1, wherein the ligand is a ligand according to the formula  $\text{HCp}^*\text{-Z-Y(H)}_b$ , in which  $\text{Cp}^*$  is a delocalized  $\eta^5$  bonding cyclopentadienyl comprising ligand, wherein Y is a ligand bonded to Z comprising nitrogen, phosphorus, oxygen or sulfure and having up to 20 non-hydrogen atoms, wherein Z is a moiety comprising boron, or a member of Group 14, and also sulfur or oxygen, said moiety having up to 20 non-hydrogen atoms, and optionally  $\text{Cp}^*$  and Z together form a fused ring system and  $b=0$  or 1.

8. (Previously Presented) A process according to claim 6, wherein the metal is a group 4, or 5 metal or metalloid, or a metal selected from the lanthanide series.

9. (Currently Amended) A process according to claim 1, wherein the ligand, represented by  $(\text{Ar-Z})_s\text{Y}(\text{-Z-R}'_n)_q$   $(\text{Ar-Z})_s\text{Y}(\text{-Z-DR}'_n)_q$ , with, Y representing an anionic moiety, Z an optional bridging group between the Y moiety and the  $\text{DR}'_n$  and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with  $q + s \geq 1$ .

10. (Original) A process according to claim 9, wherein the metal is a group 4 metal with a valency of 3.

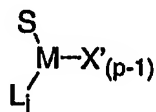
11. (Currently Amended) A process according to claim 1, wherein the ligand is represented by



wherein Z is a bridging group, between two donor atom containing groups (D), D an electron-donating group comprising a hetero atom chosen from group 15 or 16, n is the number of (Z-D) groups, and R is a substituent.

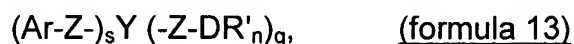
12. (Original) A process according to claim 11, wherein the metal is a metal from group 7-11.

13. (Currently Amended) Hydrocarbylated metal organic compound according to formula 10,



(formula 10)

containing a spectator ligand S equal to wherein said S is equal to formula 13



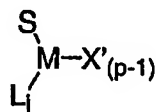
with, R an optional bridging group between the Y moiety and the  $\text{DR}'_n$  and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with  $q + s \geq 1$ , X' is an hydrocarbyl radical bonded to the group 4-6 metal M with a reduced oxidation state p, L a neutral Lewis basic ligand bonded to M, j representing an integer denoting the number of ligands L, characterized in that Y is an imine group.

14. (Original) Hydrocarbylated metal organic compound according to claim 13 wherein the imine is a ketimide, phosphinimide, guanidine, or iminoimidazoline.

15. (Original) Hydrocarbylated metal organic compound according to claim 14, comprising a group 4-6 metal M in the reduced oxidation state, further comprising a spectator ligand having an imine group wherein Y, R and D are part of an aromatic ring system, optionally containing  $\text{sp}^3$ ,  $\text{sp}^2$  or sp hybridized atoms or combinations thereof.

16. (Previously Presented) Hydrocarbylated metal organic compound according to claim 13, wherein the electron donating hetero atom containing group  $DR'_n$  is a ketimide, phosphinimide, guanidine, or iminoimidazoline.

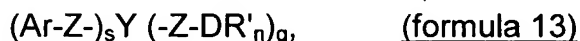
17. (Currently Amended) Hydrocarbylated metal organic compound according to formula 10,



(formula 10)

---

containing a spectator ligand S equal to                     , wherein said S is equal to formula 13



wherein Y represents an anionic moiety of S bonded to M of the metal-organic compound, Z an optional bridging group between the Y moiety and the  $DR'_n$  and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with  $q + s \geq 1$ , X' is an hydrocarbyl radical bonded to M with valency p, L a neutral ligand bonded to M, j representing an integer denoting the number of ligands L, characterized in that the electron donating hetero atom containing group  $DR'_n$  is a ketimide, phosphinimide, guanidine, or an iminoimidazoline.

18. (Previously Presented) Process for the preparation of a polyolefin in the presence of an activator, characterized in that the process is carried out in the presence of a metal-organic compound according to claim 13.

19. (Currently Amended) Process according to claim ~~19~~ 18, wherein the activator is a borane or a borate.